

U.S. Patent Application No. 10/730,289

Docket No.: 500202301-2 (1509-439)

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**RECEIVED  
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**Claims 1-22. (Canceled)**

23. (Currently amended) A personal computer adapted to generate electromagnetic radiation having frequencies in a known frequency range, comprising a wall carrying a grounded electromagnetic shield mass having passages with electrically conductive surfaces sized and shaped to (a) substantially confine the electromagnetic radiation having the frequencies in the known frequency range to the interior of the personal computer, and (b) provide a relatively low thermal impedance path for escape, from the computer, of thermal energy generated in the computer, the shield having stationary surfaces with respect to the wall, the surfaces of the passages including walls that extend directly between opposite surfaces of the shield mass. A personal computer according to claim 22, wherein the longest dimension of cross section of the passages between the opposite surfaces of the shield mass is being no more than 10% of the wavelength of the highest frequency in the range.

24. (Previously presented) A personal computer according to claim 23, wherein the wall passages have a substantially constant cross sectional area between the opposite surfaces of the shield mass.

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**25.** (Currently amended) A personal computer adapted to generate electromagnetic radiation having frequencies in a known frequency range, comprising a wall carrying a grounded electromagnetic shield mass having passages with electrically conductive surfaces sized and shaped to (a) substantially confine the electromagnetic radiation having the frequencies in the known frequency range to the interior of the personal computer, and (b) provide a relatively low thermal impedance path for escape, from the computer, of thermal energy generated in the computer, the shield having stationary surfaces with respect to the wall, the surfaces of the passages including walls that extend directly between opposite surfaces of the shield mass. A personal computer according to claim 22, wherein the passage walls include including grounded electrically conductive tubes.

**26.** (Currently amended) A personal computer adapted to generate electromagnetic radiation having frequencies in a known frequency range, comprising a wall carrying a grounded electromagnetic shield mass having passages with electrically conductive surfaces sized and shaped to (a) substantially confine the electromagnetic radiation having the frequencies in the known frequency range to the interior of the personal computer, and (b) provide a relatively low thermal impedance path for escape, from the computer, of thermal energy generated in the computer, the shield having stationary surfaces with respect to the wall, the surfaces of the passages including walls that extend directly between opposite surfaces of the shield mass. A personal computer according to claim 22, wherein the passage walls include including grounded electrically conductive painted surfaces.

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27. *(Currently amended)* A personal computer adapted to generate electromagnetic radiation having frequencies in a known frequency range, comprising a wall carrying a grounded electromagnetic shield mass having passages with electrically conductive surfaces sized and shaped to (a) substantially confine the electromagnetic radiation having the frequencies in the known frequency range to the interior of the personal computer, and (b) provide a relatively low thermal impedance path for escape, from the computer, of thermal energy generated in the computer, the shield having stationary surfaces with respect to the wall, A personal computer according to claim 21, wherein the mass is being carried by a non-electrically ~~conductive~~ conductive material carrying an electrical conductor that grounds the electrically conductive surface of the passage.

28. *(Previously presented)* A personal computer according to claim 25, wherein the electrical conductors include conductive paint on the non-electrically conductive material.

29. *(Previously presented)* A personal computer according to claim 27, wherein non-electrically conducted material is a foam, and the electrical conductors include electrically conductive particles impregnated in the foam.

30. *(Currently amended)* A personal computer adapted to generate electromagnetic radiation having frequencies in a known frequency range, comprising a

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wall carrying a grounded electromagnetic shield mass having passages with electrically conductive surfaces sized and shaped to (a) substantially confine the electromagnetic radiation having the frequencies in the known frequency range to the interior of the personal computer, and (b) provide a relatively low thermal impedance path for escape from the computer, of thermal energy generated in the computer, the shield having stationary surfaces with respect to the wall. A personal computer according to claim 21, ~~wherein the wall has~~ having a grounded, electrically conductive portion including an opening in which the grounded shield mass is included, a holder on the wall that maintains the shield mass in place in the opening; the holder being arranged, and the opening and shield mass having geometries so the peripheral edges of the opening abut corresponding edges of the shield mass, except where the holder is located, the holder being electrically conductive so that an electric connection between the shield mass and the grounded wall portion is established through the holder.

**31.-34.** (Canceled)

**35.** (Currently amended) A structure for shielding electromagnetic energy from a first side of the structure to a second side of the structure, the structure comprising an electrically conductive shield mass having passages with electrically conductive surfaces sized and shaped to (a) substantially prevent escape of electromagnetic radiation having frequencies in a known frequency range from the first side to the second side, and (b) provide a relatively low thermal impedance path for escape of thermal energy from the first side of the structure to the second side of the

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structure, wherein the surfaces of the passages including walls that extend directly between opposite surfaces of the shield mass, the longest dimension of cross sections of the passages between the opposite surfaces of the shield mass being no more than 10% of the wavelength of the highest frequency in a range of frequencies generated on the first side of the structure.

36. (Canceled)

37. (Currently amended) The structure of claim 35, wherein the longest dimension of cross sections of the passage wherein the wall passages have a substantially constant cross sectional area between the opposite surfaces of the shield mass.

38. (Previously presented) The structure of claim 35, wherein the passage walls include grounded electrically conductive tubes.

39. (Previously presented) The structure of claim 35, wherein the passage walls include grounded electrically conductive painted surfaces.